DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter **Report No:** WIR-017722 Address: 333 Burma Road **Date Inspected:** 27-Oct-2010

City: Oakland, CA 94607

OSM Arrival Time: 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: Mr.Oiu Wen. **CWI Present:** Yes No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A Yes N/A N/A **Electrode to specification:** No Weld Procedures Followed: Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A Yes N/A **Approved Drawings:** Yes No **Approved WPS:** No **Delayed / Cancelled:** Yes No N/A

34-0006 **Bridge No: Component:** Tower and Orthotropic Box Girder (OBG)

Summary of Items Observed:

On this day CALTRANS OSM Quality Assurance (QA) Inspector Shailesh Gaikwad was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. QA observed and/or found the following:

NDT

BAY 12

This QA Inspector performed randomly Visual Inspection and Ultrasonic Testing (UT) of approximately 10% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated a TL-6027 (UT) report for this date. The member is identified as OBG plate. The weld designations reviewed are as follows.

SA3114A-006, 008, SA3111B-005, 009, 022, 024 SA3111B-037 NDT Notification No-07125 and 07129

This QA Inspector observed the following work in progress:

BAY 11: SMAW process:

This QA Inspector observed ZPMC qualified welding personnel identified as 041271, 040690 Perform Shielded

WELDING INSPECTION REPORT

(Continued Page 2 of 3)

Metal Arc Welding (SMAW) on Lift 5 Bracket stiffener. Joint identified as ND1-BRSA5-2-6A. ZPMC QC Identified as Shao Hai Lang. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-3212-Tc-U5b.

Repair welding SMAW process:

This QA Inspector observed ZPMC qualified welding personnel identified as 202100 Perform Shielded Metal Arc Welding (SMAW) on Lift 5 Bracket stiffener. Joint identified as SD1-BRSA5-1-13A/B. ZPMC QC Identified as Shao Hai Lang with Temporary welding repair report WRR-T-WR3734. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-485-SMAW-2G (2F) –Repair 1. For more information see below attached picture number 1.

OBG Bike path plate Repair welding FCAW process:

This QA Inspector observed ZPMC qualified welding personnel identified as 040704, Perform Flux Core Arc Welding (FCAW) on OBG bike path plate. Joint identified as BK004A1-023-043. ZPMC CWI Identified as Yu Dong Ping. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2232-Tc-U4c-F.

This QA Inspector observed ZPMC qualified welding personnel identified as 042218, 049220, Perform Flux Core Arc Welding (FCAW) on OBG bike path plate. Joint identified as BK004C3-024-051, 052. ZPMC QC Identified as Xu Jie. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2132. For more information see below attached picture number 2.

This QA Inspector observed ZPMC qualified welding personnel identified as 042218, 049220, Perform Flux Core Arc Welding (FCAW) on OBG bike path plate. Joint identified as BK004C3-024-025, 026. ZPMC QC Identified as Xu Jie. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2132.

This QA Inspector observed ZPMC qualified welding personnel identified as 040759, Perform Flux Core Arc Welding (FCAW) on OBG bike path plate. Joint identified as BK004C1-024-045. ZPMC QC Identified as Xu Jie. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2131-B-U2-F.

BAY 10

OBG Bike path plate FCAW process:

This QA Inspector observed ZPMC qualified welding personnel identified as 053869, 040302, Perform Flux Core Arc Welding (FCAW) on OBG bike path. Joint identified as BK004A1-029-044. ZPMC QC Identified as Lijun. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2231-B-U2-F.

This QA Inspector observed ZPMC qualified welding personnel identified as 053869, 040302, Perform Flux Core Arc Welding (FCAW) on OBG bike path. Joint identified as BK004A8-029-045, 046, 104, 105. ZPMC QC Identified as Lijun. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2133.

WELDING INSPECTION REPORT

(Continued Page 3 of 3)

This QA Inspector observed ZPMC qualified welding personnel identified as 052075, 057180, Perform Flux Core Arc Welding (FCAW) on OBG bike path. Joint identified as BK004A6-025-023, 024, 035, 160. ZPMC QC Identified as Deng Zhi Bing. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2132.

Unless otherwise noted, all work observed on this date appeared to be in general compliance with the applicable contract documents.





Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Thomas Ho phone: 150002048250, who represents the Office of Structural Materials for your project.

Inspected By:	Gaikwad,Shailesh	Quality Assurance Inspector
Reviewed By:	Clifford,William	QA Reviewer